

Title: US-09-884-767A-1

Perfect score: 16

Sequence: 1 XXXXDRX 7

RESULT 6

AAW31031

ID AAW31031 standard; peptide; 7 AA.

XX  
AC AAW31031;  
XX  
DT 09-JAN-1998 (first entry)  
XX  
DE Mugwort pollen allergen B cell epitope.  
XX  
KW Cofactor-independent phosphoglycerate mutase; PGM-i; E.C. 5.4.21;  
KW Timothy grass; pollen; allergy; plant allergen; panallergen; B cell;  
KW T cell; epitope; immunotherapy; detection; diagnosis; hay fever;  
KW conserved.

XX  
OS Artemisia vulgaris.

XX  
PN WO9705258-A2.

XX  
PD 13-FEB-1997.

XX  
PF 02-AUG-1996; 96WO-AT00141.

XX  
PR 02-AUG-1995; 95AT-0001320.

XX  
PA (BIOM-) BIOMAY PRODN & HANDELS GMBH.

XX  
PI Breitenbach M, Ebner C, Engel E, Ferreira F, Jilek A;  
PI Kraft D, Richter K, Rheinberger H;

XX  
DR WPI; 1997-145695/13.

XX  
PT New recombinant DNA encoding plant phospho:glycerate mutase or its  
PT antigenic epitope(s) - useful for diagnosis or treatment of  
PT allergies to pollen and plant-derived foods

XX  
PS Disclosure; Fig 11a; 160pp; German.

XX  
CC AAW31018-W31040 are B cell epitopes of mugwort pollen co-factor-  
CC independent phosphoglycerate mutase (PGM-i) isoform Art6. PGM-i is  
CC a highly conserved plant allergen (panallergen) which can cause  
CC cross-reactivity in patients allergic to pollen and plant-derived  
CC foods. PGM-i and it's B cell and T cell epitopes can be used for the  
CC in vitro detection of allergy against PGM-i, by measuring serum IgE  
CC or a cellular reaction. They can also be used in immunotherapy and  
CC will not cause an autoimmune response because PGM-i is significantly  
CC different from the human enzyme, which is co-factor dependent.

XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 16; DB 18; Length 7;  
Best Local Similarity 28.6%; Pred. No. 7.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
Db 1 NFRADRM 7

RESULT 13

US-07-714-540-7

; Sequence 7, Application US/07714540

; Patent No. 5262521

; GENERAL INFORMATION:

; APPLICANT: Almquist, Ronald G.

; APPLICANT: Toll, Lawrence

; TITLE OF INVENTION: ISOLATED ATRIAL PEPTIDE-DEGRADING  
; TITLE OF INVENTION: ENZYME AND NOVEL COMPOUNDS USEFUL AS INHIBITORS THEREOF  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Irell & Manella  
; STREET: 545 Middlefield Road, Suite 200  
; CITY: Menlo Park  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94025  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/714,540  
; FILING DATE: 19910607  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reed, Dianne E.  
; REGISTRATION NUMBER: 31,292  
; REFERENCE/DOCKET NUMBER: 8500-0135.00  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-327-7250  
; TELEFAX: 415-327-2951  
; TELEX: 706141  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 amino acids  
; TYPE: AMINO ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-07-714-540-7

Query Match 100.0%; Score 16; DB 1; Length 8;  
Best Local Similarity 28.6%; Pred. No. 2e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 XXXXDRX 7  
:::::||:  
Db 1 DVNTDRP 7

RESULT 6  
US-09-243-079-74  
; Sequence 74, Application US/09243079  
; Patent No. US20020081566A1  
; GENERAL INFORMATION:  
; APPLICANT: Beretta, Alberto  
; TITLE OF INVENTION: HIV PROTEIN EPITOPEs IMMUNOLOGICALLY  
; TITLE OF INVENTION: HOMOLOGOUS TO HLA  
; FILE REFERENCE: 29928-PCT-USA-1  
; CURRENT APPLICATION NUMBER: US/09/243,079  
; CURRENT FILING DATE: 1999-02-02  
; PRIOR APPLICATION NUMBER: 08/335,733  
; PRIOR FILING DATE: 1994-11-10  
; PRIOR APPLICATION NUMBER: PCT/IT93/00049  
; PRIOR FILING DATE: 1993-05-10  
; PRIOR APPLICATION NUMBER: RM92A/000350  
; PRIOR FILING DATE: 1992-05-11  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 74  
; LENGTH: 8  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-243-079-74

Query Match 100.0%; Score 16; DB 10; Length 8;

. Best Local Similarity 28.6%; Pred. No. 8.8e+04;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
::::|:  
Db 2 QAQADRV 8

RESULT 7

US-09-243-079-75

; Sequence 75, Application US/09243079

; Patent No. US20020081566A1

; GENERAL INFORMATION:

; APPLICANT: Beretta, Alberto

; TITLE OF INVENTION: HIV PROTEIN EPITOPES IMMUNOLOGICALLY

; TITLE OF INVENTION: HOMOLOGOUS TO HLA

; FILE REFERENCE: 29928-PCT-USA-I

; CURRENT APPLICATION NUMBER: US/09/243,079

; CURRENT FILING DATE: 1999-02-02

; PRIOR APPLICATION NUMBER: 08/335,733

; PRIOR FILING DATE: 1994-11-10

; PRIOR APPLICATION NUMBER: PCT/IT93/00049

; PRIOR FILING DATE: 1993-05-10

; PRIOR APPLICATION NUMBER: RM92A/000350

; PRIOR FILING DATE: 1992-05-11

; NUMBER OF SEQ ID NOS: 89

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 75

; LENGTH: 8

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-243-079-75

Query Match 100.0%; Score 16; DB 10; Length 8;

Best Local Similarity 28.6%; Pred. No. 8.8e+04;

Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
::::|:  
Db 1 QAQADRV 7

RESULT 13

US-09-931-969A-11

; Sequence 11, Application US/09931969A

; Patent No. US20020160959A1

; GENERAL INFORMATION:

; APPLICANT: Nicholette, Charles A.

; TITLE OF INVENTION: THERAPEUTIC COMPOUNDS FOR OVARIAN CANCER

; FILE REFERENCE: GZ 2104.00

; CURRENT APPLICATION NUMBER: US/09/931,969A

; CURRENT FILING DATE: 2002-04-08

; PRIOR APPLICATION NUMBER: 60/226,243

; PRIOR FILING DATE: 2000-08-17

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 9

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-931-969A-11

Query Match 100.0%; Score 16; DB 9; Length 9;

Best Local Similarity 28.6%; Pred. No. 8.8e+04;

Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
::::|:  
Db 1 IIEDDRL 7

RESULT 2

PT0676

T-cell receptor beta chain V-D-J region (140-1AL) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C;Accession: PT0676

R;Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.

A;Reference number: PT0509; MUID:91277601; PMID:1711558

A;Accession: PT0676

A;Status: translation not shown

A;Molecule type: DNA

A;Residues: 1-7 <FEE>

A;Experimental source: day 18 fetal thymus, strain BALB/c

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 7;  
Best Local Similarity 28.6%; Pred. No. 2.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7

:::::||:

Db 1 ASGEDRG 7

RESULT 3

PT0576

T-cell receptor beta chain V-D-J region (141-1G) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C;Accession: PT0576

R;Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.

A;Reference number: PT0509; MUID:91277601; PMID:1711558

A;Accession: PT0576

A;Status: translation not shown

A;Molecule type: mRNA

A;Residues: 1-7 <FEE>

A;Experimental source: day 19 fetal thymus, strain BALB/c

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 7;  
Best Local Similarity 28.6%; Pred. No. 2.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7

:::::||:

Db 1 ASSDDRT 7

RESULT 7

PT0547

T-cell receptor beta chain V-D-J region (126-1AI) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C;Accession: PT0547

R;Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.

A;Reference number: PT0509; MUID:91277601; PMID:1711558

A;Accession: PT0547

A;Status: translation not shown

A;Molecule type: mRNA

A;Residues: 1-8 <FEE>

A;Experimental source: day 18 fetal thymus, strain BALB/c

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 8;  
Best Local Similarity 28.6%; Pred. No. 2.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy . 1 XXXXDRX 7  
::::|:  
Db 2 SSDADRG 8

RESULT 9

PT0212

T-cell receptor alpha chain V-J region (4-1-E.2) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 31-Dec-1991 #sequence\_revision 31-Dec-1991 #text\_change 30-May-1997

C;Accession: PT0212

R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T.

J. Exp. Med. 173, 1091-1097, 1991

A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is not restricted in non-obese diabetic mice.

A;Reference number: PT0209; MUID:91217621; PMID:1902501

A;Accession: PT0212

A;Molecule type: mRNA

A;Residues: 1-10 <NAK>

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 10;  
Best Local Similarity 28.6%; Pred. No. 1.1e+03;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
::::|:  
Db 4 AGGADRL 10

RESULT 6

MY14\_EISFO

ID MY14\_EISFO STANDARD PRT; 14 AA.

AC P46979;

DT 01-NOV-1995 (Rel. 32, Created)

DT 01-NOV-1995 (Rel. 32, Last sequence update)

DT 01-NOV-1995 (Rel. 32, Last annotation update)

DE Myoactive tetradecapeptide (ETP).

OS Eisenia foetida (Common brandling worm) (Common dung-worm).

OC Eukaryota; Metazoa; Annelida; Clitellata; Oligochaeta; Haplotaxida;

OC Lumbricina; Lumbricidae; Eisenia.

OX NCBI\_TaxID=6396;

RN [1]

RP SEQUENCE, AND SYNTHESIS.

RC TISSUE=Gut;

RX MEDLINE=96087879; PubMed=8532604;

RA Ukena K., Oumi T., Matsushima O., Ikeda T., Fujita T., Minakata H.,

RA Nomoto K.;

RT "A novel gut tetradecapeptide isolated from the earthworm, Eisenia

RT foetida.";

RL Peptides 16:995-999(1995).

CC -!- FUNCTION: HAS A STIMULATIVE EFFECT ON THE CONTRACTION OF GUT

CC MUSCLES.

CC -!- SIMILARITY: TO INSECTS ALLATOTROPIN.

KW Neuropeptide; Amidation.

FT MOD\_RES 14 14 AMIDATION.

SQ SEQUENCE 14 AA; 1478 MW; CC9ABEF941CD91AD CRC64;

Query Match 100.0%; Score 16; DB 1; Length 14;  
Best Local Similarity 28.6%; Pred. No. 5.9e+02;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
::::|:  
Db 4 DGAADRI 10

RESULT 7

MY14\_PHEVI

ID MY14\_PHEVI STANDARD PRT; 14 AA.

AC P46980;

DT 01-NOV-1995 (Rel. 32, Created)

DT 01-NOV-1995 (Rel. 32, Last sequence update)  
DT 01-NOV-1995 (Rel. 32, Last annotation update)  
DE Myoactive tetradecapeptide (PTP).  
OS Pheretima vittata (Earthworm).  
OC Eukaryota; Metazoa; Annelida; Clitellata; Oligochaeta; Haplotaxida;  
OC Lumbricina; Megascolecidae; Pheretima.  
OX NCBI\_TaxID=46674;  
RN [1]  
RP SEQUENCE, AND SYNTHESIS.  
RC TISSUE=Gut;  
RX MEDLINE=96087879; PubMed=8532604;  
RA Ukena K., Oumi T., Matsushima O., Ikeda T., Fujita T., Minakata H.,  
RA Nomoto K.;  
RT "A novel gut tetradecapeptide isolated from the earthworm, Eisenia  
RT foetida.";  
RL Peptides 16:995-999(1995).  
CC -!- FUNCTION: HAS A STIMULATIVE EFFECT ON THE CONTRACTION OF GUT  
CC MUSCLES.  
CC -!- SIMILARITY: TO INSECTS ALLATOTROPIN.  
KW Neuropeptide; Amidation.  
FT MOD\_RES 14 14 AMIDATION.  
SQ SEQUENCE 14 AA; 1522 MW; DA40BEE67CCD91AD CRC64;

Query Match 100.0%; Score 16; DB 1; Length 14;  
Best Local Similarity 28.6%; Pred. No. 5.9e+02;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::::||:  
Db 4 DGSADRI 10

RESULT 12  
FIBB\_LAMGL  
ID FIBB\_LAMGL STANDARD; PRT; 19 AA.  
AC P14473;  
DT 01-JAN-1990 (Rel. 13, Created)  
DT 01-JAN-1990 (Rel. 13, Last sequence update)  
DT 15-JUN-2002 (Rel. 41, Last annotation update)  
DE Fibrinogen beta chain [Contains: Fibrinopeptide B] (Fragment).  
GN FGB.  
OS Lama glama (Llama),  
OS Lama vicugna (Vicugna) (Vicugna vicugna), and  
OS Camelus dromedarius (Dromedary) (Arabian camel).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Cetartiodactyla; Tylopoda; Camelidae; Lama.  
OX NCBI\_TaxID=9844, 9843, 9838;  
RN [1]  
RP SEQUENCE.  
RC SPECIES=L.glama;  
RA Blomback B., Blomback M., Grondahl N.J.;  
RT "Studies on fibrinopeptides from mammals.";  
RL Acta Chem. Scand. 19:1789-1791(1965).  
RN [2]  
RP SEQUENCE.  
RC SPECIES=C.dromedarius;  
RX MEDLINE=67209145; PubMed=6033721;  
RA Doolittle R.F., Schubert D., Schwartz S.A.;  
RT "Amino acid sequence studies on artiodactyl fibrinopeptides. I.  
RT Dromedary camel, mule deer, and cape buffalo.";  
RL Arch. Biochem. Biophys. 118:456-467(1967).  
RN [3]  
RP SEQUENCE.  
RC SPECIES=L.vicugna;  
RA Mross G.A., Doolittle R.F.;  
RT "Amino acid sequence studies on artiodactyl fibrinopeptides.";  
RL Arch. Biochem. Biophys. 122:674-684(1967).  
CC -!- FUNCTION: FIBRINOGEN HAS A DOUBLE FUNCTION: YIELDING MONOMERS THAT  
CC POLYMERIZE INTO FIBRIN AND ACTING AS A COFACTOR IN PLATELET  
CC AGGREGATION.  
CC -!- SUBUNIT: HEXAMER CONTAINING 2 SETS OF 3 NONIDENTICAL CHAINS

CC . (ALPHA, BETA AND GAMMA), LINKED TO EACH OTHER BY DISULFIDE BONDS.  
CC -!- MISCELLANEOUS: CONVERSION OF FIBRINOGEN TO FIBRIN IS TRIGGERED BY  
CC THROMBIN, WHICH CLEAVES FIBRINOPEPTIDES A AND B FROM ALPHA & BETA  
CC CHAINS, AND THUS EXPOSES THE N-TERMINAL POLYMERIZATION SITES  
CC RESPONSIBLE FOR THE FORMATION OF THE SOFT CLOT.  
DR InterPro; IPR002181; Fibrinogen\_C.  
DR PROSITE; PS00514; FIBRIN\_AG\_C\_DOMAIN; PARTIAL.  
KW Blood coagulation; Plasma; Sulfation.  
FT PEPTIDE 1 19 FIBRINOPEPTIDE B.  
FT MOD\_RES 4 4 SULFATION.  
FT NON\_TER 19 19  
SQ SEQUENCE 19 AA; 2295 MW; E7EE6B6100568638 CRC64;

Query Match 100.0%; Score 16; DB 1; Length 19;  
Best Local Similarity 28.6%; Pred. No. 8.2e+02;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::::||:  
Db 6 EEEDRV 12

RESULT 13  
LPGE\_ECOLI  
ID LPGE\_ECOLI STANDARD PRT; 19 AA.  
AC P33236;  
DT 01-FEB-1994 (Rel. 28, Created)  
DT 01-FEB-1994 (Rel. 28, Last sequence update)  
DT 16-OCT-2001 (Rel. 40, Last annotation update)  
DE Gef leader peptide.  
GN GEFL OR B0018.  
OS Escherichia coli.  
OC Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
OC Escherichia.  
OX NCBI\_TaxID=562;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=92048481; PubMed=1943701;  
RA Poulsen L.K., Refn A., Molin S., Andersson P.;  
RT "The gef gene from Escherichia coli is regulated at the level of  
RT translation.";  
RL Mol. Microbiol. 5:1639-1648(1991).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=K12 / MG1655;  
RX MEDLINE=97426617; PubMed=9278503;  
RA Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,  
RA Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,  
RA Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,  
RA Mau B., Shao Y.;  
RT "The complete genome sequence of Escherichia coli K-12.";  
RL Science 277:1453-1474(1997).  
CC -----  
CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use by non-profit institutions as long as its content is in no way  
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CC or send an email to license@isb-sib.ch).  
CC -----  
DR EMBL; AE000112; AAC73129.1; ALT\_TERM.  
DR PIR; S16473; S16473.  
DR EcoGene; EG12074; gefL.  
KW Leader peptide; Complete proteome.  
SQ SEQUENCE 19 AA; 2259 MW; 19B3EDF371EB0BEB CRC64;

Query Match 100.0%; Score 16; DB 1; Length 19;  
Best Local Similarity 28.6%; Pred. No. 8.2e+02;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy . 1 XXXXDRX 7  
      ::::|:  
Db    7 VPLTDRK 13

RESULT 4  
Q70140  
ID Q70140    PRELIMINARY;    PRT;    9 AA.  
AC Q70140;  
DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE Tat protein (Fragment).  
GN TAT.  
OS Human immunodeficiency virus type 1.  
OC Viruses; Retroid viruses; Retroviridae; Lentivirus.  
OX NCBI\_TaxID=11676;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=020;  
RX MEDLINE=95194694; PubMed=7888189;  
RA Gao F., Yue L., Craig S., Thornton C.L., Robertson D.L.,  
RA McCutchan F.E., Bradac J.A., Sharp P.M., Hahn B.H.;  
RT "Genetic variation of HIV type 1 in four World Health Organization-  
RT sponsored vaccine evaluation sites: generation of functional envelope  
RT (glycoprotein 160) clones representative of sequence subtypes A, B, C,  
RT and E. WHO Network for HIV Isolation and Characterization.";  
RL AIDS Res. Hum. Retroviruses 10:1359-1368(1994).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=020;  
RX MEDLINE=96190564; PubMed=8627686;  
RA Gao F., Morrison S.G., Robertson D.L., Thornton C.L., Craig S.,  
RA Karlsson G., Sodroski J., Morgado M., Galvao-Castro B.,  
RA von Briesen H., Beddows S., Weber J., Sharp P.M., Shaw G.M.,  
RA Hahn B.H.;  
RT "Molecular cloning and analysis of functional envelope genes from  
RT human immunodeficiency virus type 1 sequence subtypes A through G. The  
RT WHO and NIAID Networks for HIV Isolation and Characterization.";  
RL J. Virol. 70:1651-1657(1996).  
RN [3]  
RP SEQUENCE FROM N.A.  
RC STRAIN=020;  
RA Allen E.E.;  
RL Submitted (APR-1994) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; U08794; AAB05175.1; -.  
FT NON TER    1    1  
SQ SEQUENCE   9 AA; 1098 MW; 5B76D40AB1AB01A3 CRC64;  
  
Query Match           100.0%; Score 16; DB 15; Length 9;  
Best Local Similarity   28.6%; Pred. No. 6.7e+05;  
Matches    2; Conservative   5; Mismatches   0; Indels   0; Gaps   0;

Qy    1 XXXXDRX 7  
      ::::|:  
Db    2 KTETDRF 8

RESULT 15  
Q93A08  
ID Q93A08    PRELIMINARY;    PRT;    12 AA.  
AC Q93A08;  
DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE ResB protein (Fragment).  
GN RESB.  
OS Thiobacillus ferrooxidans.  
OC Bacteria; Proteobacteria; gamma subdivision; Acidithiobacillus.  
OX NCBI\_TaxID=920;  
RN [1]

RP SEQUENCE FROM N.A.  
RC STRAIN=ATCC33020;  
RA Levican G., Bruscella P., Guacunano M., Inostroza C., Jedlicki E.,  
RA Bonnefoy V., Holmes D.S.;  
RT "Characterization of the pet and res operons of Acidithiobacillus  
RT ferrooxidans.";  
RL Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AJ413194; CAC88360.1; -.  
FT NON\_TER 1 1  
SQ SEQUENCE 12 AA; 1405 MW; 886AB7DF1E13240A CRC64;

Query Match 100.0%; Score 16; DB 2; Length 12;  
Best Local Similarity 28.6%; Pred. No. 2.3e+03;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::::||:  
Db 1 QSQDDRK 7  
RESULT 10  
US-08-045-394A-47  
; Sequence 47, Application US/08045394A  
; GENERAL INFORMATION:  
; APPLICANT: Rath, Matthias  
; TITLE OF INVENTION: Further Synthetic Oligopeptides  
; TITLE OF INVENTION: Analogous To Protein Signal Sequences And Therapeutic Use  
; NUMBER OF SEQUENCES: 253  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SHELDON & MAK  
; STREET: 401 Florence Street, First Floor  
; CITY: Palo Alto  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk, 3.50 inch, 1.44 MB storage  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/045,394A  
; FILING DATE: 12-APR-1993  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cranfill, Raymond B  
; REGISTRATION NUMBER: 32,845  
; REFERENCE/DOCKET NUMBER: RATH-10016-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-322-5333  
; TELEFAX: 415-322-5499  
; INFORMATION FOR SEQ ID NO: 47:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 7 amino acid  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-045-394A-47

Query Match 100.0%; Score 16; DB 4; Length 7;  
Best Local Similarity 28.6%; Pred. No. 4.2e+06;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::::||:  
Db 1 ESRADRK 7  
  
RESULT 8  
US-09-455-294A-15  
; Sequence 15, Application US/09455294A  
; GENERAL INFORMATION:  
; APPLICANT: Bannon, Gary A.

; APPLICANT: Burks, Wesley A.  
; APPLICANT: Caplan, Michael J.  
; APPLICANT: Sampson, Hugh  
; APPLICANT: Sosin, Howard  
; TITLE OF INVENTION: Peptide Antigens  
; FILE REFERENCE: 2002834-0004  
; CURRENT APPLICATION NUMBER: US/09/455,294A  
; CURRENT FILING DATE: 1999-12-06  
; PRIOR APPLICATION NUMBER: PCT/US96/15222  
; PRIOR FILING DATE: 1996-09-23  
; PRIOR APPLICATION NUMBER: 08/717,933  
; PRIOR FILING DATE: 1996-09-23  
; PRIOR APPLICATION NUMBER: 09/141,220  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/074,590  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: 60/074,624  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: 60/074,633  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: 60/073,283  
; PRIOR FILING DATE: 1998-01-31  
; NUMBER OF SEQ ID NOS: 110  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 15  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Peptide of Ara  
; OTHER INFORMATION: h 1 from Arachis hypogaea containing IgE binding  
; OTHER INFORMATION: epitope  
US-09-455-294A-15

Query Match 100.0%; Score 16; DB 5; Length 10;  
Best Local Similarity 28.6%; Pred. No. 1.7e+03;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
::::|:  
Db 3 DYDDDRR 9

RESULT 10  
US-09-141-220D-6  
; Sequence 6, Application US/09141220D  
; GENERAL INFORMATION:  
; APPLICANT: Bannon, Gary A  
; APPLICANT: Burks, Wesley A  
; APPLICANT: Sampson, Hugh  
; APPLICANT: Sosin, Howard  
; TITLE OF INVENTION: Methods and Reagents for Decreasing Clinical Reaction  
; TITLE OF INVENTION: to Allergy  
; FILE REFERENCE: 2002834-0043  
; CURRENT APPLICATION NUMBER: US/09/141,220D  
; CURRENT FILING DATE: 2002-11-13  
; PRIOR APPLICATION NUMBER: PCT/US96/15222  
; PRIOR FILING DATE: 1996-09-23  
; PRIOR APPLICATION NUMBER: 60/074,590  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: 60/074,624  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: 60/074,633  
; PRIOR FILING DATE: 1998-02-13  
; NUMBER OF SEQ ID NOS: 80  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: peanut  
US-09-141-220D-6

Query Match 100.0%; Score 16; DB 5; Length 10;  
Best Local Similarity 28.6%; Pred. No. 1.7e+03;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1 XXXXDRX 7  
:::||:  
Db 3 DYDDDR 9